



## 2004 Population Estimates of New Hampshire Cities and Towns

Prepared by The

**New Hampshire Office of Energy and Planning**

Date of Publication: July 2005

The Office of Energy and Planning (OEP) is required by Law (RSA 78-A:25) to estimate the population of the State's municipalities on an annual basis. The law stipulates that the estimates be certified to the State Treasurer by August 19th and that they reflect population levels of the preceding year. Further, the law requires that the definition of resident be the same as that of the US Decennial Census.

The accompanying figures are **ESTIMATES** and are so labeled. Users of these figures should be aware that many of the data used to calculate the estimates were collected by local governmental units or school districts, for purposes other than accounting for population change. The methods which convert these data, such as school enrollments and building permits, into estimated population have been developed to reflect true population insofar as possible. Data used to calculate estimates in past years are subject to change. For this and other reasons, OEP strongly recommends that these estimates *not* be compared on a year to year basis.

Some communities may have estimating procedures that are different from the ones used by OEP. Also, some communities have established population figures based on their own enumeration (census) efforts. These local efforts can render highly accurate results. The OEP however uses a uniform estimating system, that is applied equally to all 234 communities. It is likely that if OEP staff were to estimate any one municipality on an individual basis, the resulting estimate would be different than the one contained herein.

The accompanying table shows the total population of NH's municipalities for 1990, 2000, and OEP's estimate for 2004. These figures are composed of the household population and persons living in group quarters. Group quarters populations consists of persons living in dormitories, some types of nursing homes, prisons, etc. Many municipalities have no group quarters populations. For the convenience of data users, the table shows *the 2004 group quarters population that is part of the total estimated population*.

Populations for unincorporated areas are not included in this report.

Anyone wishing further information regarding these estimates should contact the Office of Energy and Planning, 57 Regional Dr, Concord, New Hampshire 03301 - telephone (603) 271-2155.

Municipality	I----- Total Population -----I			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
-----	-----	-----	-----	Pop	Square Mile
Alton	3,286	4,502	4,895	0	76.6
Barnstead	3,100	3,886	4,482	0	104.5
Belmont	5,796	6,716	7,160	11	237.9
Center Harbor	996	996	1,058	9	79.5
Gilford	5,867	6,803	7,284	2	187.7
Gilmanton	2,609	3,060	3,381	7	58.7
Laconia	15,743	16,411	16,941	699	842.8
Meredith	4,837	5,943	6,276	154	155.7
New Hampton	1,606	1,950	2,104	3	57.2
Sanbornton	2,136	2,581	2,803	0	59.3
Tilton	3,240	3,477	3,614	241	317.0
<b>Belknap Co.</b>	49,216	56,325	59,998	1,126	149.1

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
			2004	Pop	Square Mile
Albany	536	654	675	3	9.0
Bartlett	2,290	2,705	2,898	16	38.7
Brookfield	518	604	664	0	29.0
Chatham	268	260	272	0	4.8
Conway	7,940	8,604	9,078	149	130.2
Eaton	362	375	415	2	17.0
Effingham	941	1,273	1,390	118	35.7
Freedom	935	1,303	1,413	6	41.0
Harts Location	36	37	33	0	1.7
Jackson	678	835	867	13	13.0
Madison	1,704	1,984	2,187	0	56.5
Moultonboro	2,956	4,484	4,830	31	80.5
Ossipee	3,309	4,211	4,494	174	63.4
Sandwich	1,066	1,286	1,347	0	14.8
Tamworth	2,165	2,510	2,537	6	42.4
Tuftonboro	1,842	2,148	2,298	0	56.6
Wakefield	3,057	4,252	4,691	0	118.8
Wolfeboro	4,807	6,083	6,442	109	133.4
Carroll Co.	35,410	43,608	46,531	627	49.9

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
			2004	Pop	Square Mile
Alstead	1,721	1,944	1,996	12	51.2
Chesterfield	3,112	3,542	3,757	0	82.4
Dublin	1,474	1,476	1,548	73	55.5
Fitzwilliam	2,011	2,141	2,263	1	65.4
Gilsum	745	777	812	7	48.6
Harrisville	981	1,075	1,107	0	59.2
Hinsdale	3,936	4,082	4,268	0	206.2
Jaffrey	5,361	5,476	5,746	160	149.6
Keene	22,430	22,563	23,015	2543	620.4
Marlborough	1,927	2,009	2,087	0	102.3
Marlow	650	747	778	0	29.9
Nelson	535	634	651	0	29.7
Richmond	877	1,077	1,139	9	30.4
Rindge	4,941	5,451	5,970	1342	160.9
Roxbury	248	237	235	0	19.6
Stoddard	622	928	977	0	19.2
Sullivan	706	746	785	0	42.4
Surry	667	673	729	0	46.4
Swanzey	6,236	6,800	7,081	11	157.7
Troy	2,097	1,962	2,023	0	115.6
Walpole	3,210	3,594	3,692	1	103.4
Westmoreland	1,596	1,747	1,872	313	52.1
Winchester	4,038	4,144	4,299	91	78.2
Cheshire Co.	70,121	73,825	76,830	4,563	108.6

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
-----	-----	-----	-----	Pop	Square Mile
Berlin	11,824	10,331	10,594	580	172.3
Carroll	528	663	725	9	14.4
Clarksville	232	294	323	2	5.3
Colebrook	2,444	2,321	2,421	39	59.3
Columbia	661	750	819	3	13.4
Dalton	827	927	985	0	35.8
Dummer	327	309	326	2	6.8
Errol	292	298	345	3	5.7
Gorham	3,173	2,895	2,954	5	92.6
Jefferson	965	1,006	1,059	0	21.1
Lancaster	3,522	3,280	3,399	135	67.7
Milan	1,295	1,331	1,376	0	21.5
Northumberland	2,492	2,438	2,480	0	67.6
Pittsburg	901	867	923	1	3.3
Randolph	371	339	420	2	8.9
Shelburne	437	379	388	0	8.1
Stark	518	516	534	1	9.0
Stewartstown	1,048	1,012	1,025	110	22.0
Stratford	927	942	998	0	12.5
Whitefield	1,909	2,038	2,109	73	61.5
Coos Co.	34,693	32,936	34,203	965	27.6

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate 2004	Quarters Pop	Persons per Square Mile
-----	-----	-----	-----	-----	-----
Alexandria	1,190	1,329	1,463	0	33.6
Ashland	1,915	1,955	2,026	0	179.3
Bath	784	893	935	0	24.5
Benton	330	314	328	103	6.8
Bethlehem	2,033	2,199	2,375	25	26.1
Bridgewater	796	974	1,024	0	47.6
Bristol	2,537	3,033	3,175	27	185.7
Campton	2,377	2,719	2,919	0	56.2
Canaan	3,045	3,319	3,478	0	65.3
Dorchester	392	353	376	0	8.4
Easton	223	256	286	0	9.2
Ellsworth	74	87	86	0	4.0
Enfield	3,979	4,618	4,850	12	120.3
Franconia	811	924	997	71	15.2
Grafton	923	1,138	1,179	0	28.3
Groton	318	456	486	0	11.9
Hanover	9,212	10,850	11,086	3919	225.8
Haverhill	4,164	4,416	4,624	279	90.3
Hebron	386	459	533	0	31.5
Holderness	1,694	1,930	2,027	22	66.5
Landaff	350	378	394	0	13.9
Lebanon	12,183	12,568	13,470	306	334.2
Lincoln	1,229	1,271	1,304	0	10.0
Lisbon	1,664	1,587	1,681	0	63.4
Littleton	5,827	5,845	6,250	67	125.0
Lyman	388	487	532	0	18.7
Lyme	1,496	1,679	1,725	10	32.1
Monroe	746	759	811	0	36.2
Orange	237	299	303	0	13.1
Orford	1,008	1,091	1,168	0	25.2
Piermont	624	709	721	0	18.7
Plymouth	5,811	5,892	6,328	1916	224.4
Rumney	1,446	1,480	1,571	17	37.4
Sugar Hill	464	563	633	0	37.0
Thornton	1,505	1,843	2,006	1	39.9
Warren	820	873	929	0	19.1
Waterville Valley	151	257	278	0	4.3
Wentworth	630	798	867	0	20.7
Woodstock	1,167	1,139	1,191	0	20.4
Grafton Co.	74,929	81,740	86,415	6,775	52.4

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
-----	-----	-----	-----	Pop	Square Mile
Amherst	9,068	10,769	11,499	0	339.2
Antrim	2,360	2,449	2,577	10	72.2
Bedford	12,563	18,274	20,475	466	624.2
Bennington	1,236	1,401	1,453	0	127.5
Brookline	2,410	4,181	4,621	0	232.2
Deering	1,707	1,875	2,010	79	65.7
Francestown	1,217	1,480	1,573	0	52.8
Goffstown	14,621	16,929	17,784	2093	479.4
Greenfield	1,519	1,657	1,751	159	66.1
Greenville	2,231	2,224	2,254	0	326.7
Hancock	1,604	1,739	1,819	0	60.6
Hillsborough	4,498	4,928	5,527	36	126.5
Hollis	5,705	7,015	7,530	0	236.8
Hudson	19,530	22,928	24,373	193	855.2
Litchfield	5,516	7,360	7,991	0	536.3
Lyndeborough	1,294	1,585	1,773	1	58.7
Manchester	99,567	107,006	109,761	2802	3,326.1
Mason	1,212	1,147	1,273	0	53.0
Merrimack	22,156	25,119	26,540	61	814.1
Milford	11,795	13,535	14,643	140	576.5
Mont Vernon	1,812	2,034	2,313	19	137.7
Nashua	79,662	86,605	88,297	1564	2,866.8
New Boston	3,214	4,138	4,856	7	112.9
New Ipswich	4,014	4,289	4,919	25	150.4
Pelham	9,408	10,914	12,348	0	469.5
Peterborough	5,239	5,883	6,125	338	161.2
Sharon	299	360	379	0	24.1
Temple	1,194	1,297	1,465	18	65.7
Weare	6,193	7,776	8,673	1	146.8
Wilton	3,122	3,743	3,978	0	155.4
Windsor	107	201	240	87	29.3
Hillsborough Co	336,073	380,841	400,820	8,099	456.9

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
-----	-----	-----	-----	Pop	Square Mile
Allenstown	4,649	4,843	5,033	35	245.5
Andover	1,883	2,109	2,203	14	54.8
Boscawen	3,586	3,672	3,812	445	153.1
Bow	5,500	7,138	7,788	0	276.2
Bradford	1,405	1,454	1,563	21	44.4
Canterbury	1,687	1,979	2,196	3	50.0
Chichester	1,942	2,236	2,469	5	116.5
Concord	36,006	40,687	42,175	3301	659.0
Danbury	881	1,071	1,146	0	30.3
Dunbarton	1,759	2,226	2,470	0	80.2
Epsom	3,591	4,021	4,451	121	129.0
Franklin	8,304	8,405	8,614	192	311.0
Henniker	4,151	4,433	4,768	546	108.1
Hill	814	992	1,075	0	40.3
Hooksett	8,767	11,721	12,918	866	356.9
Hopkinton	4,806	5,399	5,630	0	130.0
Loudon	4,114	4,481	4,991	2	108.5
Newbury	1,347	1,702	1,992	0	55.6
New London	3,180	4,116	4,435	864	198.0
Northfield	4,263	4,548	4,869	59	170.2
Pembroke	6,561	6,897	7,276	0	321.9
Pittsfield	3,701	3,931	4,307	6	178.7
Salisbury	1,061	1,137	1,241	0	31.3
Sutton	1,457	1,544	1,734	13	40.7
Warner	2,250	2,760	2,939	122	53.2
Webster	1,405	1,579	1,733	4	61.2
Wilmot	935	1,144	1,257	0	42.8
Merrimack Co.	120,005	136,225	145,085	6,619	155.4

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2004	2004 Persons per Square Mile
	U.S. Census		OEP	Group	
	1990	2000	Estimate 2004	Quarters Pop	
-----	-----	-----	-----	-----	-----
Atkinson	5,188	6,178	6,603	4	589.6
Auburn	4,085	4,682	5,092	7	199.7
Brentwood	2,590	3,197	4,057	524	238.6
Candia	3,557	3,911	4,128	0	136.2
Chester	2,691	3,792	4,556	68	175.2
Danville	2,534	4,023	4,412	3	380.3
Deerfield	3,124	3,678	4,177	52	82.2
Derry	29,603	34,021	34,710	239	980.5
East Kingston	1,352	1,784	1,977	0	199.7
Epping	5,162	5,476	5,917	8	226.7
Exeter	12,481	14,058	14,539	351	734.3
Fremont	2,576	3,510	3,977	42	229.9
Greenland	2,768	3,208	3,398	20	323.6
Hampstead	6,732	8,297	8,636	45	644.5
Hampton	12,278	14,937	15,376	211	1,114.2
Hampton Falls	1,503	1,880	2,008	0	161.9
Kensington	1,631	1,893	2,062	0	171.8
Kingston	5,591	5,862	6,186	0	310.9
Londonderry	19,781	23,236	24,408	10	581.1
New Castle	840	1,010	1,042	11	1,302.5
Newfields	888	1,551	1,641	0	231.1
Newington	990	775	792	26	96.6
Newmarket	7,157	8,027	9,156	41	726.7
Newton	3,473	4,289	4,493	0	458.5
North Hampton	3,637	4,259	4,508	0	324.3
Northwood	3,124	3,640	3,885	3	138.3
Nottingham	2,939	3,701	4,169	0	89.7
Plaistow	7,316	7,747	7,884	11	743.8
Portsmouth	25,925	20,784	21,053	602	1,341.0
Raymond	8,713	9,674	10,384	10	360.6
Rye	4,612	5,182	5,282	114	419.2
Salem	25,746	28,112	29,768	144	1,200.3
Sandown	4,060	5,143	5,694	35	406.7
Seabrook	6,503	7,934	8,406	0	934.0
South Hampton	740	844	883	0	111.8
Stratham	4,955	6,355	6,944	0	459.9
Windham	9,000	10,709	12,368	132	463.2
Rockingham Co	245,845	277,359	294,571	2,713	422.6

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population



Municipality	I----- Total Population -----I			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
			2004	Pop	Square Mile
Barrington	6,164	7,475	8,046	8	172.3
Dover	25,042	26,884	28,688	808	1,074.5
Durham	11,818	12,664	13,280	4530	592.9
Farmington	5,739	5,774	6,520	27	178.6
Lee	3,729	4,145	4,351	19	217.6
Madbury	1,404	1,509	1,736	0	151.0
Middleton	1,183	1,440	1,657	2	91.5
Milton	3,691	3,910	4,316	0	130.4
New Durham	1,974	2,220	2,422	1	58.5
Rochester	26,630	28,461	30,244	281	675.1
Rollinsford	2,645	2,648	2,682	0	367.4
Somersworth	11,249	11,477	11,815	33	1,205.6
Strafford	2,965	3,626	3,950	9	80.6
<b>Strafford Co.</b>	104,233	112,233	119,707	5,718	325.9

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2004	
	U.S. Census		OEP	Group	2004
	1990	2000	Estimate	Quarters	Persons per
-----	-----	-----	-----	Pop	Square Mile
Acworth	776	836	870	0	22.4
Charlestown	4,630	4,749	4,933	20	137.8
Claremont	13,902	13,151	13,175	199	305.7
Cornish	1,659	1,661	1,712	1	40.8
Croydon	627	661	751	1	20.4
Goshen	742	741	799	8	35.7
Grantham	1,247	2,167	2,399	0	88.2
Langdon	580	586	608	0	37.3
Lempster	947	971	1,048	0	32.4
Newport	6,110	6,269	6,362	120	146.3
Plainfield	2,056	2,241	2,392	0	45.8
Springfield	788	945	1,025	0	23.5
Sunapee	2,559	3,055	3,194	0	151.4
Unity	1,341	1,530	1,636	235	44.2
Washington	628	895	936	0	20.6
<b>Sullivan Co.</b>	38,592	40,458	41,840	584	77.8
<b>N.H.</b>	<b>1,109,117</b>	<b>1,235,550</b>	<b>1,306,000</b>	<b>37,789</b>	<b>156.5</b>

Population of unincorporated places not included in this report

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

# OEP ESTIMATE METHODOLOGY

## DWELLING UNIT METHOD

The official estimates of population are based on a dwelling unit method. The method attempts to translate permits issued for new dwellings, into estimated population.

The 2000 US Census serves as a benchmark; changes in the number of dwellings are used to update the dwelling unit counts by the US Census. Two rates are used to convert the estimated number of dwellings into estimated population. These rates are population per household and occupancy rates. These rates vary considerably by housing type. For this reason, data and calculations are divided into; single family, multi-family and manufactured housing types.

The two rates, by type, are calculated for each municipality using the 2000 US Census.

The dwelling unit calculations estimate household population. Group Quarters population, persons living in dormitories, prisons, etc, are estimated using the 2000 census and updated with an annual OEP survey of establishments known to have group quarters population.

Usually the individual municipal estimates are proportionately adjusted to an existing estimated state total. This state total is prepared with the state as a single statistical entity. In turn, this state total results from an adjustment to conform to a national total. The state total is prepared by the Federal-State Cooperative Program for Population Estimates (FSCPE). **However the 2003 OEP municipal estimates were NOT controlled to the FSCP state total.**

The 2002 calculations of the dwelling unit method for the Town of Alton appear below:

	(Census) 2000 Total <u>Units</u>	Permits Issued to <u>2002</u>	Percent of Units <u>Occupied</u>	2003 Occupied <u>Units</u>
Single Family	3,133	124	.4868	1,586
Multi-Family	200	6	.7950	164
Mfg. Units	189	6	.7460	145

	Population Per <u>H'Hold w/adjust.</u>	2002 Est. <u>Population</u>	
Single Family	2.52	3,995	
Multi-Family	2.53	414	
Mfg. Units	1.87	272	
		0	'02 Est. Group Quarters Pop.
		<u>+12</u>	State Total Adjustment (1.002563 for 2002 Estimate)
		<b>4,693</b>	

## SCHOOL ENROLLMENT METHOD

The official OEP population estimates are based on the dwelling unit method. However, a school enrollment method is closely monitored to evaluate results based on dwelling unit data. The school enrollment method attempts to use a "known population" - school aged persons - to estimate an "unknown population," persons aged birth to 64 years inclusive. The population aged 65 years and over is estimated using medicare data. The population in group quarters is estimated in the same way as in the dwelling unit method (see above).

The 2000 census serves as a benchmark to convert school enrollment and medicare data into estimated population. The decennial census is used to calculate the ratio between the school aged population and the population aged birth to 64 years. This ratio will be adjusted through the oughts to account for shifts in age structure. This adjustment will be

based on state population estimates by age issued by the Bureau of the Census.

Using Alton as an example, the calculation for the school enrollment method appears below:

Calculate relationship between school enrollment and census.

Adjust school enrollment to 2000 census count.

$$\frac{\text{Pop 6\&17 yrs 2000 census}}{\text{School Enrollment 1999\&00}} \cdot \frac{745}{705} = 1.0567$$

$$\begin{array}{r} \text{School Enrollment 01 - '02} = 738 \\ \times \frac{1.0567}{780} \\ \hline \end{array} \quad \text{(Adjusted school population)}$$

Calculate relationship between age groups 6-17 and birth to 64 years.

$$\frac{(\text{Census}) 2000 \text{ Pop. Birth\&64 Years}}{(\text{Census}) 2000 \text{ Pop. 6\&17 Years}} \cdot \frac{3807}{745} = 5.1101$$

The 2000 census indicates that there were 5.1101 persons aged birth to 64 years for everyone aged 6 - 17 years. In the future, state estimates by age, will be used to change this ratio according to indicated shifts in age structure of the state.

Estimate Birth to 64 population for 2002 by multiplying the adjusted school enrollment by adjusted age ratio:

$$\begin{array}{r} \text{Adjusted '02 school enrollment} \quad 780 \\ \text{Adjusted age ratio} \quad \times 5.1101 \\ \hline \text{2002 estimated pop. B - 64 yrs.} \quad \mathbf{3,986} \end{array}$$

Using medicare enrollment, the county's 2002 pop. 65+, was estimated to be 8,766. In 2000, Alton's population 65 years old and over was 695, this was 8.1803% of Belknap County's total. Applying this percentage to the county estimate of persons over 65 produces a 2002 estimate for Alton's 65+ population:  
 $8,766 \times .081803 = \mathbf{717}$  (Alton 2002 pop. 65+.)

Change 2000 to 2002 of Alton's Group Quarters Population = 0

$$\begin{array}{r} \text{Estimated Alton Pop. Birth - 64 Yrs.} \quad 3,986 \\ \text{Estimated Alton Pop. 65+} \quad 717 \\ \text{Change in Group Quarters} \quad \underline{0} \\ \text{Raw 2002 Estimated Pop.} \quad \mathbf{4,703} \end{array}$$

$$\begin{array}{r} \text{State Total Adjustment} \quad \underline{106} \quad (4,703 \times 1.022546) \\ \text{Adjusted Alton 2000 Estimated Pop.} \quad \mathbf{4,809} \end{array}$$

Again, this figure is used to evaluate the outcome of the dwelling unit method.